

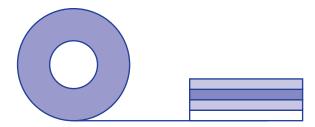
Product: D53815B

Product group: **Double Coated Tapes** 

# General description

Nitto D53815B is a lens mounting tape that consists out of a pressure sensitive adhesive and is used to mount plastic parts into electronic devices.

## Construction



- -Pressure sensitive acrylic adhesive
- -Polyester carrier
- -Pressure sensitive acrylic adhesive
- -Release liner

# Characteristics

This product has a good adhesion to metal and various plastics. Nitto D53815B performs excellent in the "lens push-out" and "holding power" testings and it has low fogging properties (DIN 75201).

A PET carrier of 23µ allows easy processability.

# **Application**

Nitto D53815B is used for mounting of lenses onto mobile phones or for fixing parts for compact home appliances.

## **Features**

- good adhesion to metal and various plastics
- excellent "lens push-out" and "holding power" test
- low fogging (DIN 75201)
- easy processability
- RoHS compliant (2011/65/EC, 2015/863)

# **Technical Properties**

#### General physical properties

|                                  | Typical Value                       | Test Method               |  |
|----------------------------------|-------------------------------------|---------------------------|--|
| Adhesive type                    | Pressure sensitive acrylic adhesive |                           |  |
| Tape thickness*                  | 0.150 mm                            | EN 1942                   |  |
| Carrier                          | Black PET (0.023 mm)                |                           |  |
| Release liner                    | Paper (65 g/m²)                     |                           |  |
| Release value                    | 15 cN/50mm                          | Nitto Belgium Test Method |  |
| Adhesion to BA steel             | 1650 cN/20mm                        | EN 1939                   |  |
| Static shear                     | 0.5 mm/3h                           | EN 1943                   |  |
| Transport and storage conditions | Temperature 15 to 30°C              |                           |  |
|                                  | Relative humidity 40 to 75% RH      |                           |  |

<sup>\*</sup> Tape thickness = Total thickness without liner

Details from the test methods are described on the customer product specification.

CAUTION: The above are typical values and should not be used in writing specifications.

### Performance properties

| Adhesion in cN/20mm  |                                  |      |                        | EN 1939    |                                  |  |
|--|----------------------------------|------|------------------------|------------|----------------------------------|--|
| PMMA   | PC                               | ABS  | PET                    | Glass      |                                  |  |
| 1800   | 1400                             | 2000 | 700                    | 1800       |                                  |  |
| Weight Added Peel Off (WAPO) 2 h at 60°C, width 20mm,                            |                                  |      |                        |            | 2 h at 60°C, width 20mm, 100g    |  |
| PP 10 m  | m/2h                             |      | ABS                    | 3 10 mm/2h | BA 2 mm/2h                       |  |
|  |                                  |      |                        |            |                                  |  |
| Dynamic :  | Shear                            |      | 400 N/4cm <sup>2</sup> |            | Tested after 15 min., 300mm/min. |  |
| Saft test (Shear Adhesion Failure Temperature) 175 °C +0,5°C/min., 15x15mm, 200g |                                  |      |                        |            |                                  |  |
| Lens Pusl  | h out                            |      | 220                    | N          | PC, ABS, 40x40x5 mm              |  |
| Fogging  | ogging 1.52 mg/50cm <sup>2</sup> |      | DIN 75201              |            |                                  |  |

### Warranty

The product is guaranteed to be free from defect in material and workmanship at the time of delivery and will be suitable for use for a period of 6 months thereafter, subject to the conditions set out herein.

# Application guidelines

- For optimum results, an even rub down pressure must be applied to the taped area to create the best possible adhesion between tape and the substrates.
- To ensure optimal anchorage of tape to foam, attention should be paid to the lamination pressure, temperature and time.
- Remove the liner prior to usage.
- The tape should be applied to clean and dry surfaces.
- The best application conditions are obtained at a temperature between 15 °C and 40 °C.

If you require additional information on technical properties and application as well as product sampling or testing, please contact your local Nitto sales office.

#### General conditions of use and precautions:

The properties of the product might be adversely affected by various elements such as composition, condition and surface of and impurities in or on the substrate, temperature and humidity during storage and the surrounding environment at and after application and time of exterior use.

When the product is used in combination with another material or process, the user shall assure the compatibility of the product in such combination and whether this combination results in the expected performance. The same principle applies in the event of product use in extreme conditions or circumstances, whether at or after the moment of application, including extended exposure to sunlight or extreme temperatures and pressure.

#### Packaging, transport and storage:

During transport and storage the product should always be protected against direct sunlight and extremes in temperature and humidity and contained in its original packaging. Once removed from its packaging, it should be promptly applied and remain shielded from direct sunlight and extreme temperature as well as protected against dust and other impurities.

#### Liability:

Except for its wilful misconduct, Nitto Belgium's liability shall be limited to a replacement, a reimbursement or an additional delivery of the product, and shall not exceed the purchase price of the products. In no event shall Nitto be liable in respect of any indirect or consequential damages, including loss of profits.

The above limitations of liability shall equally apply if Nitto Belgium has assisted in any manner with the selection, treatment or application of the product.

## **Product information:**

This datasheet provides a general description of the product properties and application scope. Full technical details in connection with this product are presented in the customer product specification, which is available upon request.

Please be advised that the information reflected in this datasheet is subject to change and the product described herein may be modified or discontinued without notice.

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Nitto Belgium NV has obtained following certificates:

- ISO 9001
- ISO 14001
- IATF 16949

Please check our website for applicable scope



For your local Nitto sales office, please visit our web site:

www.nitto.com

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